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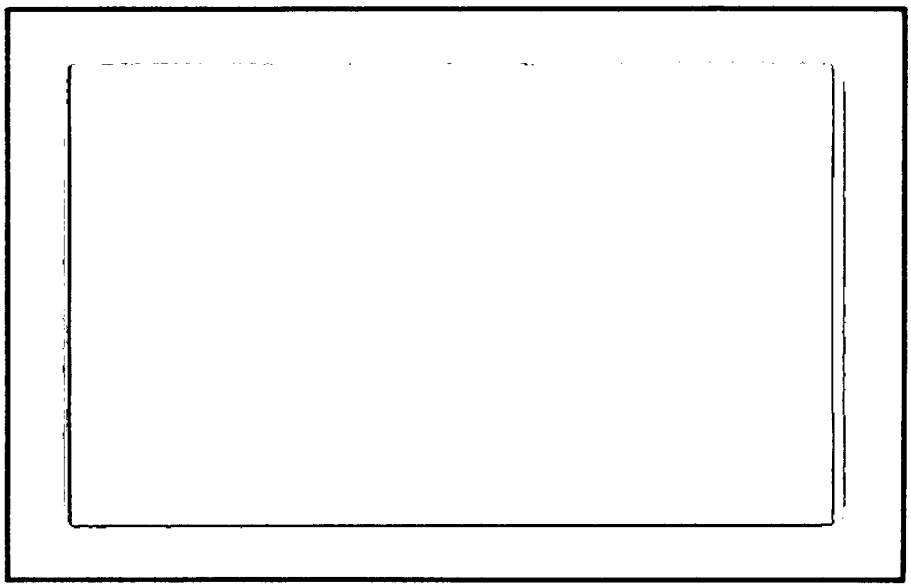

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SUMMARY LETTER REPORT

ON

WORK ORDER NO. 9,
TASK ORDER NO. TT

July 30, 1961

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[redacted] 50X1

August 14, 1961

Dear Sir:

This letter report summarizes the research performed under Work Order No. 9, Task Order No. TT, during the period February 22 through July 30, 1961.

The objective of this program was to provide advisory services in connection with the Sponsor's procurement, from a commercial fabricator, of the Model 3 incinerator, which had been developed previously under Task Order No. 88. In summary, the services provided included (1) the preparation of a full-scale layout drawing of the prototype unit, (2) the preparation of copies of all of the original sketches used during our fabrication of the prototype unit, and (3) participation in a meeting with the commercial fabricator, where the details of construction and assembly of a production unit were discussed.

On May 18, 1961, a selected member of our engineering staff accompanied the Sponsor to the plant of the commercial fabricator [redacted] 50X1

[redacted] 50X1 The Model 3 prototype had been disassembled by the fabricator and fabrication drawings were being prepared. The fabricator had several questions regarding the construction of the cyclone dust collector, which in the prototype was entirely enclosed and could not be readily examined. Copies of all of the sketches and the layout drawing were given to the fabricator and the function of each part was described. Two changes were agreed upon: (1) the conical grid was to be made slightly larger in order to provide

better structural support for holding the cover flat and thus minimize air leakage, and (2) the lower support for the dust collector was to be modified to eliminate one part and thus simplify construction.

In the discussion, particular emphasis was placed on the need for properly sized air passages in the production unit, so as to obtain the same distribution of combustion air and cooling air as that provided in the prototype unit. It was also pointed out that a final check on air-flow distribution in the production unit should be made by measuring the static pressure in the plenum chamber downstream from the blower. In this connection, a pressure tap, consisting of a short piece of tubing, was to be installed, similar to that provided in the prototype unit. It was indicated to the fabricator that the pressure at this tap should be between 8 and 9 inches of water when the unit is empty and the blower is operating.

Copies of the sketches and drawing which were provided to the fabricator were also given to the Sponsor.

We would appreciate any comments which you or your associates might care to make with regard to our efforts under this Work Order.

Sincerely,

[redacted] 50X1

[redacted] 50X1

In Triplicate

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